

## INTERNATIONAL SEARCH REPORT

Rec'd PCT/PTO 01 JUL 2004

International application No.

PCT/FI 03/00003

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7: H05K 9/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: H05K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## EPO-INTERNAL, WPI DATA, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 1996, no 10, 31 October 1996 (1996-10-31) & JP 81 67787 A (MITSUBISHI MATERIALS CORP ET AL) 25 June 1996 (1996-06-25) abstract  --	1,16
A	US 4890083 A (GEORGE TRENKLER ET AL), 26 December 1989 (26.12.89), column 1, line 15 - line 64; column 2, line 43 - column 4, line 16, abstract  --	1-38
A	US 5210373 A (HARTWIN WEBER), 11 May 1993 (11.05.93), column 2, line 30 - column 3, line 47  --	1-38

 Further documents are listed in the continuation of Box C. See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the international search report

1 April 2003

04-04-2003

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol.015, no. 004 (E-1020) 08 January 1991 (1991-01-08) & JP 22 60500 A (MITSUBISHI RAYON CO LTD) 23 October 1990 (1990-10-23) abstract -----	1-38

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No.

30/12/02

PCT/FI 03/00003

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
US 4890083 A	26/12/89	NONE		
US 5210373 A	11/05/93	DE 4029498 A		19/03/92
		EP 0476414 A		25/03/92
		JP 4254639 A		09/09/92